RA Bill I^st & Final

M. A. R. 57 (Rule 116)
Measurement Book

BR-39/30-8-14

No. B 183212

Serial No. Asphalting to Roads and Improvement & Drains in Bheetrappa Layout Marathinagara surroundings

Name of work ... From in Ward No. 08 ... To Kodigehalli SUB Division.

Name of Contractor of nature of Agency Sri Rajesh.K, Balaji Layout, Banglore.

Date of commencement of work

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Work order No: EE/BTP/BBMP/E-PMT/571/2013-14 Date: 03/03/14,						
	Work code No: 008-14-000006						
	EE cost; Rs. 20000/-						
	1) Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 m and an average lift upto 0.5m excavated surface level and sides neatly dressed etc complete						
	Drilling & Drain						
	5th cross Monolithic	2	30.00	0.45	—		
		2	30.00	0.45	0.45	12.12	
		2	27.20	0.45	0.35	9.45	
				0.45	0.40	9.72	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cross Road	2	30.00	0.45	0.30	8.10	
		2	30.00	0.45	0.35	9.45	
		2	30.00	0.45	0.40	10.80	
		2	30.00	0.45	0.35	9.45	
		2	20.80	0.45	0.30	5.62	
	Intermix CR 1 R/S	2	15.00	0.45	0.35	4.73	
	CR 2 R/S	2	22.00	0.45	0.45	8.91	
	CR 1 R/S	2	30.00	0.45	0.30	8.10	
		2	30.00	0.45	0.40	10.80	
		1	16.00	0.45	0.35	5.04	
	CR 3 R/S	3	28.00	0.45	0.40	10.80	
	CR 4 R/S	3	31.40	0.45	0.35	9.89	
	Main Road	3	30.00	0.45	0.30	8.10	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183213

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions: Length 4	Dimensions: Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2	30.00	0.45	0.40	10.80	
		2	30.00	0.45	0.30	8.10	
		2	30.00	0.45	0.35	9.45	
		2	30.00	0.45	0.40	10.80	
		2	30.00	0.45	0.35	9.45	
		2	30.00	0.45	0.35	9.45	
		2	26.00	0.45	0.35	8.19	
	5 in cross Manthirapara	1	30.00	(6.8+5.3)/2	0.15	25.60	
		1	30.00	(5.3+6.1)/2	0.15	25.63	
		1	27.20	(6.1+6.5)/2	0.15	25.50	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cross Road	1	30.00	(6.1+5.9)/2	0.15	27.90	
		1	30.00	(5.9+6.2)/2	0.15	27.23	
		1	30.00	(6.2+6.1)/2	0.15	27.68	
		1	30.00	(6.1+5.6)/2	0.15	26.33	
		1	20.80	(5.6+5.4)/2	0.15	17.16	
	Interior CR 1 R/S	1	15.00	(4.6+4.3)/2	0.15	10.01	
	CR 2 R/S	1	22.00	(4.9+4.5)/2	0.15	15.51	
	CR 1 L/S	1	30.00	(5.0+4.5)/2	0.15	21.38	
		1	30.00	4.50	0.15	20.25	
		1	10.00	(4.5+5.2)/2	0.15	10.46	

Reference to last Measurement 8

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183214

Serial No .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Interior cR 3 Rds	1	28.00	5.20	0.15	21.84	
cR 4 Rds	1	31.40	(4.5+4.6)/2	0.15	21.63	
Main Road	1	30.00	(6.6+5.9)/2	0.15	28.13	
	1	30.00	(5.9+6.1)/2	0.15	27.00	
	1	30.00	6.10	0.15	27.45	
	1	30.00	(6.1+5.9)/2	0.15	27.00	
	1	30.00	(5.9+5.7)/2	0.15	26.10	
	1	30.00	(5.7+5.6)/2	0.15	25.43	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{(5.6+5.8)}{2}$	0.15	25.65	
		1	26.00	$\frac{(5.8+6.0)}{2}$	0.15	23.01	
						719.58 cm	
					@	65.22/cm	46931=00
2)	Loading and unloading & stones aggregates / sand / kanker / moorum / soil placing tipper at loading with front end loader clamping turning for return trip as complete						
		Qty vide item No			①	719.58 cm	
						617.00 cm	
					@	77.46/cm	47793=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183215

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
46931:00	Removing BS slab drain and stacking 5m complete						
	5th cross Ramthinagar	2×2	30.00	-	1.35	162.00	
		2	27.90	-	1.35	73.44	
	Cross Road	3×2	30.00	-	1.35	243.00	
		2	20.80	-	1.35	56.16	
	Interior CR 1 R/S	2	15.00	-	1.35	40.50	
	CR 2 R/S	2	22.00	-	1.35	59.40	
47793:00	CR 1 R/S	2×2	30.00	-	1.35	162.00	
		2	16.00	-	1.35	43.20	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CR 3 RLs	2	28.00	-	1.35	75.60	
	CR 4 RLs	2	31.40	-	1.35	84.78	
	Main Road	4×2	30.60	-	1.35	324.00	
		2	18.00	-	1.35	48.60	
						1450.91 Rm	
					@	49.61/Rm	71980=00
4)	Refixing Stone Slab & drains and pointing in CM (1:3) as complete						
		@ 1/4 wide Item No: (2)				1650.91 Rm	
					@	89.34/Rm	100606=00
5)	Providing Granite Slabs of selected quality roughly chiseled and bedded in cement mortar (1:6) including fixing during as complete as complete						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183216

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	25.00	-	1.35	33.75	
		1	18.00	-	1.35	24.30	
		1	16.00	-	1.35	21.60	
		1	25.80	-	1.35	34.83	
		1	26.80	-	1.35	36.18	
		1	19.00	-	1.35	25.65	
		2	22.20	-	1.35	59.94	
		1	19.90	-	1.35	26.87	
		1	26.00	-	1.35	35.10	
		1	28.00	-	1.35	37.80	
		1	29.60	-	1.35	39.96	

71980.00

100606.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	31·00	-	1·35	41·85	
		1	16·00	-	1·35	21·60	
		1	18·00	-	1·35	24·30	
		1	16·00	-	1·35	21·60	
						483·64 sqm	
						€ 340·09 /sqm	164462·00
6)	Providing laying spreading and compacting graded stones aggregates to wet mix macadam specifications including premixing the materials with water at one in mechanical mix plant eg complete.						
	5m cross Mavulhiyapore	1	30·00	(6·8+5·3)/2	0·15	27·23	
		1	30·00	(5·3+6·1)/2	0·15	25·43	
		1	27·20	(6·1+6·5)/2	0·15	25·50	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183217

Name of work .....

Name of Contractor or nature of Agency ..... From ..... To .....

Date of commencement of work .....

Full description, etc, of work	Number	Dimensions		Depth	Contents	Reference to last Measurement
2	3	Length 4	Breadth 5	6	7	8
Cross Road	1	30.00	(6.1+5.9)	0.15	27.00	
	1	30.00	(5.9+6.2)	0.15	27.23	
	1	30.00	(6.2+6.1)	0.15	27.68	
	1	30.00	(6.1+5.6)	0.15	26.33	
	1	20.80	(5.6+5.4)	0.15	17.16	
Interior CR 1 RLs	1	15.00	(4.6+4.3)	0.15	10.01	
CR 2 RLs	1	22.00	(4.9+4.5)	0.15	15.51	
CR 1 LLs	1	30.00	(5.0+4.5)	0.15	21.28	

Reference to last Measurement 8

164442.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	4.50	0.15	20.25	
		1	16.00	(4.5+4.2)	0.15	10.44	
	eQ 3 Rls	1	28.00	5.20	0.15	21.84	
	eQ 4 Rls	1	31.60	(4.5+4.8)	0.15	21.43	
	Main Road	1	30.00	(6.6+5.9)	0.15	28.12	
		1	30.00	(5.9+6.1)	0.15	28.05	
		1	30.00	6.10	0.15	27.45	
		1	30.00	(6.1+5.9)	0.15	27.00	
		1	30.00	(5.9+5.7)	0.15	26.10	
		1	30.00	(5.7+5.6)	0.15	25.48	
		1	30.00	(5.6+5.8)	0.15	25.65	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183218

Name of work .....

Name of Contractor or nature of Agency..... From ..... To .....

Date of commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	26.00	(5.8+6.0)/2	0.15	23.01	
						533.63 sqm	
					@	1109.83/qm	592239.00
	1) Providing and applying primer coat with bitumen emulsion on prepared surface @ granular base including cleaning of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means & complete 5m cross Marathwagara	1	30.00	(6.8+5.3)/2	-	181.50	
		1	30.00	(5.3+6.1)/2	-	169.50	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	27.20	(6.1+6.5)/2	-	170.00	
	Cross Road	1	30.00	(6.1+5.9)/2	-	180.00	
		1	30.00	(5.9+6.2)/2	-	181.50	
		1	30.00	(6.2+6.1)/2	-	184.50	
		1	30.00	(6.1+5.6)/2	-	175.50	
		1	20.80	(5.8+5.4)/2	-	116.40	
		1	15.00	(4.6+4.3)/2	-	66.75	
	interior CR 1 R/S	1	23.00	(4.9+4.5)/2	-	103.40	
	CR 2 R/S	1	30.40	(5.0+4.5)/2	-	142.50	
	CR 1 L/S	1	30.40	4.50	-	135.00	
		1	30.40	(4.5+4.2)/2	-	65.60	
		1	16.40				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 183219

Name of work .....

Name of Contractor of nature of Agency ..... From ..... To .....

Date of commencement of work .....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Dimensions Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	CR 3 RLS	1	28.00	5.20	-	145.60	
	CR L RLS	1	31.40	(4.5+4.6)/2	-	142.87	
	Main Road	1	30.00	(6.6+5.9)/2	-	187.50	
		1	30.00	(5.9+6.1)/2	-	180.00	
		1	30.00	6.10	-	183.00	
		1	30.00	(6.1+5.9)/2	-	180.00	
		1	30.00	(5.9+5.7)/2	-	174.00	
		1	30.00	(5.7+5.6)/2	-	169.50	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	(5.6+5.8)/2	-	171.00	
		1	26.00	(5.8+6.0)/2	-	153.40	
						3557.50 Sq.m	
					@	43.84/Sq.m	155961.00
8)	Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing and average output of 75 Tonne per hour using crushed aggregates of specified grading to complete						
	6th Cross Maruthinagara	1	30.00	(6.8+5.3)/2	0.025	4.54	
		1	30.00	(5.3+6.1)/2	0.025	4.24	
		1	27.20	(6.1+6.5)/2	0.025	4.25	
	c Main Road	1	30.00	(6.1+5.9)/2	0.025	4.50	

M. A. R. 57 (Rule 116)

Measurement Book

No. B 183220

Name of Contractor or nature of Agency ..... From ..... To .....

Date of commencement of work .....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
7		1	30.00	(5.9+6.2)/2	0.025	4.51	
155861=00		1	30.00	(6.2+6.1)/2	0.025	4.61	
with		1	30.00	(6.1+5.6)/2	0.025	4.39	
per	Interior CR 1 RJs	1	20.80	(5.6+5.4)/2	0.025	2.86	
	CR 2 RJs	1	15.00	(4.6+4.3)/2	0.025	1.67	
	CR 1 RJs	1	22.00	(4.9+4.5)/2	0.025	2.59	
		1	30.00	(5.0+4.5)/2	0.025	3.56	
		1	30.00	4.50	0.025	3.38	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	16.00	(4.5+4.2)	0.025	1.74	
	CR 3 4/5	1	28.00	5.20	0.025	3.64	
	CR 4 2/5	1	31.40	(4.5+4.4)	0.025	3.57	
	Main Road	1	30.00	(6.6+5.9)	0.025	4.69	
		1	30.00	(5.9+6.1)	0.025	4.50	
		1	30.00	6.20	0.025	4.58	
		1	30.00	(6.1+5.9)	0.025	4.50	
		1	30.00	(5.9+5.7)	0.025	4.35	
		1	30.00	(5.7+5.6)	0.025	4.29	
		1	30.00	(5.6+5.8)	0.025	4.48	
		1	26.00	(5.8+6.0)	0.025	3.84	

M. A. R. 57 (Rule 116)

Measurement Book

No. B 183221

From ..... To .....

Name of Contractor or nature of Agency .....

Date of commencement of work .....

Reference to last Measurement 8	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	FT- 19600 INT- 78399 FD- 117599 Live 19600 Cut 1960 Bal 31079 Total 268237=00						
	1559480=00						
	268237=00				Total	88.84 cu.m	
	16,91,743=00				@	8770.65/cu.m	780062.00
	Finish up to floor					Total	1960014.00
	(b)						
	Certificate:						
	Certified that the above work done is satisfactorily.						

check the floor all items are correct

D. K. Mallick Sir

30/8/2014

P.W.D. (SW)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8